General Data

Type Reference: DSTI, DSTO
Description: Modular Contact Block (positive opening contact), PUSH-IN connection
Approvals: CCC, cCSAus, CE, KEMA KEUR, TÜV Süd
Protection class: II (protective insulation)
Operation travel: 5 mm
Connection type: push-in connection/0.75 ... 2.5 mm²
Contact material: AgNi
Max. storage temperature: -50°C ... 85°C
Max. operating temperature: -25°C ... 55°C, with/without illumination
Mechanical life: 200,000
Electrical life (rated load): 100,000 at rated load
Contact resistance NO: < 20 mOhm (new state)
Contact resistance NC: < 20 mOhm (new state)
Min. current: 5 mA (under laboratory conditions)
Min. voltage: 24 V
Bouncing time NO: < 10 ms
Bouncing time NC: < 10 ms
Positive opening contact: acc. to EN60947-5-1, appendix. K

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

Utilisation category: alternate current direct current
Rated insulation voltage Ui: 600 V 400V
Rated operating voltage Ue: 240V / 380V 250V / 125V / 60V / 24V
Rated operating current Ie: 3A / 1.9A 0.27 A / 0.55 A / 1 A / 2 A
Breaking capacity: 10Ie / 1Ae
Continuous thermal current: 16 A

Electrical data acc. to IEC/EN 61058-1 (VDE 0630 Sect. 1)

Rated voltage Ue: 250 V~ / 400 V~
Rated current Ie: 16(10) A / 10(5) A

Technical Data - Lamp

Lamp socket: BA9s
Max. lamp voltage: 250V
Max. lamp output: 2 W
Definition: X1...anode, X2...cathode

Electrical Features

Switching voltage: 20mV ... 42V AC/DC
Switching current: 1mA ... 250mA
Contact resistance [new state]: < 50 mOhm

Note
Min. operating temperature when assembled with KRJ ... actuators: -40°C...
Mounting Instructions

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4.
# Contact Blocks

**push-in connection/0.75 ... 2.5 mm²**

<table>
<thead>
<tr>
<th>Illustration</th>
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</table>
| ![Modular Contact Block](image1.png) | Modular Contact Block, momentary 1NO  
push-in connection/0.75 ... 2.5 mm²  
suitable actuators  
contact material AgNi  
DSTI | DSTI |
| ![Modular Contact Block](image2.png) | Modular Contact Block, momentary 1NC  
push-in connection/0.75 ... 2.5 mm²  
suitable actuators  
contact material AgNi  
DSTO | DSTO |
| ![Lamp Module](image3.png) | Lamp Module  
push-in connection/0.75 ... 2.5 mm²  
max. 250V 2W  
lamp socket BA9s  
suitable actuators/pilot light heads  
colour yellow  
DSL9 | DSL9 |
| ![Self-monitoring Emergency Contact Block](image4.png) | Self-monitoring Emergency Contact Block, requires only one place in the module holder 1NC (+ 1NO)  
push-in connection/0.75 ... 2.5 mm²  
contact material AgNi  
DSTOSDE | DSTOSDE |
| ![Connection Module](image5.png) | Connection Module  
push-in connection/0.75 ... 2.5 mm²  
serves to connect the illuminated emergency-stop actuators via push-in connection.  
The DSAL module is snapped into the module holder DMR.  
12-30V, AC/DC, max. 44mA  
colour white  
DSAL | DSAL |
| ![Module Holder for 3 modules](image6.png) | Module Holder for 3 modules  
with bayonet, to combine the modular contact blocks with the actuators  
DMR | DMR |
| ![Ultra-bright LED](image7.png) | Ultra-bright LED, BA9s socket  
with integrated bridge rectifier for 24V  
AC/DC, 15mA  
colour white  
LD9-24UW | LD9-24UW |
## Contact Blocks

push-in connection/0.75 ... 2.5 mm²

<table>
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| ![Mega-bright LED, BA9s](image1.png) | **Mega-bright LED, BA9s**  
with integrated bridge rectifier for 24V .. 28V AC/DC, 15.5mA (typ. 24V)  
colour white | LD9-24MW |
| ![Ultra-bright LED, BA9s](image2.png) | **Ultra-bright LED, BA9s**  
with integrated single-wave rectifier for 230V AC, 3mA  
colour white | LD9-230UW |
| ![Flashing LED, BA9s](image3.png) | **Flashing LED, BA9s**  
for 24V  
colour green  
red  
General Data

Type Reference: DT...
Description: Modular Contact Block, with Cage-Clamp technology
Approvals: CCC, cCSAus, ENEC10, VDE, CE, GL, KEMA KEUR, TÜV_Süd
Protection class: II (protective insulation)
Operation travel: 6 mm
Connection type: Cage-Clamp 0.08-2.5 mm²
Contact material: AgNi
Max. storage temperature: -40°C ... 70°C
Max. operating temperature: -25°C ... 55°C, with/without illumination
Mechanical life: 1 m switching cycles
Electrical life (rated load): 50,000
Contact resistance NO: < 20 mOhm (new state)
Contact resistance NC: < 20 mOhm (new state)
Min. current: 1 mA (under laboratory conditions)
Min. voltage: 5 V
Bouncing time NO: < 10 ms
Bouncing time NC: < 10 ms
Positive opening contact: acc. to EN60947-5-1, appendix. K

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

Utilisation category: alternate current direct current
Rated insulation voltage Ui: AC15 A600 DC13 Q300
Rated operating voltage Ue: 600 V 400V
Rated operating current Ie: 240V / 380V 250V / 125V / 60V / 24V
Breaking capacity: 3A / 1.9A 0.27 A / 0.55 A / 1 A / 2 A
Continuous thermal current: 10le 16 A

Electrical data acc. to IEC/EN 61058-1 (VDE 0630 Sect. 1)

Rated voltage Ue: 250 V~ 400 V~
Rated current Ie: 16(10) A / 10(5) A

Technical Data - Lamp

Lamp socket: BA9s
Max. lamp voltage: 250V
Max. lamp output: 2 W
Definition: X1...anode, X2...cathode

Electrical Features

Switching voltage: 20mV ... 42V AC/DC
Switching current: 1mA ... 250mA
Contact resistance (new state): < 50 mOhm

Environmental / Climatic Tests

Vibration resistance: 50m/s² at 5-150Hz according to DIN IEC 68 2-6
Shock resistance: 30m/s² at 50ms acc. to DIN IEC 68 2-27
Constant climatic resistance: IEC 600-68-2-3 and 2-30

Note

- When combining the DT... contact blocks with key actuators, selector and toggle heads, add the type code ..._497 to the actuator type reference!
- Min. operating temperature when assembled with KRJ...actuators: -40°C ...
- The use of wire end ferrules is basically possible but not necessary.
Mounting Instructions

1.

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5.

6.
## Contact Blocks

**Cage-Clamp 0.08-2.5 mm²**

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<td>Modular Contact Block, momentary 1NC</td>
<td>DTO</td>
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<td><img src="image2.png" alt="Illustration" /></td>
<td>Modular Contact Block, momentary 1NC late break</td>
<td>DTON</td>
</tr>
<tr>
<td><img src="image3.png" alt="Illustration" /></td>
<td>Modular Contact Block, momentary 1NO</td>
<td>DTI</td>
</tr>
<tr>
<td><img src="image4.png" alt="Illustration" /></td>
<td>Modular Contact Block, momentary 1NO early make</td>
<td>DTIV</td>
</tr>
<tr>
<td><img src="image5.png" alt="Illustration" /></td>
<td>Lamp Module Lampholder</td>
<td>DL</td>
</tr>
<tr>
<td><img src="image6.png" alt="Illustration" /></td>
<td>Self-monitoring Emergency Contact Block, momentary* 1NC (+ 1NO)</td>
<td>DMTOSFA</td>
</tr>
<tr>
<td><img src="image7.png" alt="Illustration" /></td>
<td>Dummy Module</td>
<td>DB</td>
</tr>
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</table>

### Modular Contact Block, momentary 1NC
- Cage-Clamp 0.08-2.5 mm²
- suitable actuators
- contact material AgNi

**Contact Blocks**

- Cage-Clamp 0.08-2.5 mm²
- suitable actuators
- contact material AgNi

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Financial data and business information.

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# Contact Blocks

**Cage-Clamp 0.08-2.5 mm²**

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<td>DMR</td>
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<tr>
<td><img src="image2.png" alt="Image" /></td>
<td><strong>Module Holder</strong>&lt;br&gt;for modules from second level on</td>
<td>DMA</td>
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<tr>
<td><img src="image3.png" alt="Image" /></td>
<td><strong>Ultra-bright LED, BA9s socket</strong>&lt;br&gt;with integrated bridge rectifier for 24V AC/DC, 15mA&lt;br&gt;colour: white</td>
<td>LD9-24UW</td>
</tr>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td><strong>Mega-bright LED, BA9s</strong>&lt;br&gt;with integrated bridge rectifier for 24V AC/DC, 15.5mA (typ. 24V)&lt;br&gt;colour: white</td>
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<tr>
<td><img src="image6.png" alt="Image" /></td>
<td><strong>Flashing LED, BA9s</strong>&lt;br&gt;for 24V&lt;br&gt;colour: green&lt;br&gt;red&lt;br&gt;yellow</td>
<td>LB9-24G&lt;br&gt;LB9-24R&lt;br&gt;LB9-24Y</td>
</tr>
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